

Awards to be given for notable contributions to extracurricular activities

The Activities Development Board is making plans to present A.D.B. Activity Awards to students, in recognition of outstanding contributions to extracurricular life at MIT.

A.D.B., recently set up by Activities Council, will tentatively accept nominations from the MIT Community at the beginning of the second semester. The nominations, after a preliminary screening, will be submitted to a special faculty committee. This committee will make the final selection of the recipients of the reward.

According to a preliminary paper drawn up by Professor Herbert H. Woodson, chairman of the Activities Council, and Mr. Robert Popadic, '64, chairman of the Activities Development Board, "Recognition will be given for contribution: 1) at the membership level of an activity; 2) at the management and/or leadership level of an activity; 3) by an entire activity."

"This award," said Professor Woodson, "has been created not only to recognize certain outstanding activities and people, but also to show the students that MIT really supports the idea of student activities."

The activities award will be in the form of a gold key for individuals and an engraved plaque for activities.

The members of the A.D.B. Awards Committee are: John Davis '65, Ed Shibata '64, Mark Radwin '64, George Schmidt '64, Mario Wannetti, Mike Lysaght '64, Bob Popadic '64, chairman.

Peace Corps test to be given Saturday

A Peace Corps placement test will be given Saturday, December 7, at 8:30 a.m. at the Brighton Hill School, 25 Warren Street, Brighton.

Application forms, which must be completed and taken to the test site, may be picked up in Room 7-133.

358 freshmen are now enrolled in 42 seminars

The total current enrollment in freshman seminars this year is 38, an increase of 26 over last year's enrollment. This information and other facts concerning the Freshman Seminar Program were recently released by the Dean of Student Affairs' Office.

A total of 42 seminars are being given for freshmen this term by 48 professors. Two seminars had to be dropped because of undersubscription. 30 of the seminars are given by the School of Engineering, 5 by the School of Science, 3 by the School of Humanities and Social Science, and 2 by the School of Industrial Management.

A similar number and distribution of seminars is planned for next term.

Faculty Awards

MIT personnel awarded for achievements, service

Members of the MIT faculty and staff have recently received awards for performance and service. Recipients are: Dr. James R. Killian, Jr., Chairman of the MIT Corporation; Dr. Charles H. Townes, provost of MIT; Walter E. Morrow, Jr.; leader of the Space Techniques and Equipment Group at MIT's Lincoln Laboratory; Dr. Avery A. Ashdown, associate professor emeritus in chemistry; Dr. Pietro Belluschi, Dean of Architecture and Planning; and Prof. John T. Howard, head of MIT's City and Regional Planning Department.

Killian honored

Dr. Killian has been named to receive the 1963 Hoover Medal, which will be conferred at the Annual Banquet of the American Society of Mechanical Engineers this evening in Philadelphia.

The Medal was founded in 1929 to commemorate the civic and humanitarian achievement of Herbert Hoover. It is awarded by engineers to a fellow engineer for distinguished public service.

Townes recognized

Dr. Townes was awarded the John Scott Award, in recognition of Townes' invention of the maser. The award, which has a premium of \$2000, was presented by the Board of Directors of City Trusts at a meeting of the American Philosophical Society.

Dr. Townes also recently received the 1963 Har-

Humanities Department considers course changes

By Howard Ellis

Major changes in the required undergraduate humanities courses are presently being considered by the Department of Humanities. Addressing an informal gathering of students at Senior House Monday evening, Prof. William Bottiglia discussed some of the proposed changes, and in particular possible changes in his own Humanities in French section.

According to Prof. Bottiglia, tentative proposals call for the reorganizing of the sophomore year humanities courses into four disciplinary parts: literature, philosophy, history and social science. Students would have the option of selecting one of these areas as a field of study for one or possibly both terms of the sophomore year.

Changes under consideration in the freshman year humanities program include expanding the present 21.02 course to provide depth study in one of a number of optional areas. No substantial changes are planned for 21.01.

Prof. Bottiglia stressed that all proposals under consideration are tentative and in the early planning stages. They are currently being dis-

(Please turn to page 2)



Vol. 83, No. 26 Cambridge, Mass., Wednesday, Dec. 4, 1963 5c

Deadline Dec. 20

Course-dropping extended

The period for dropping subjects will remain at 13 weeks this term, according to M. Bryce Leggett, Executive Officer of the Committee on Academic Performance.

A student in good academic standing who wishes to drop a subject during the first 13 weeks

may do so by presenting a petition signed by his advisor to the Registrar's Office. After December 20, the close of the 13 week period, consideration by the Committee on Academic Performance and additional formal procedures are necessary.

Morrow cited

Morrow was presented an award for outstanding achievement in development of microwave communications. President Stratton, presenting the award, commented on Morrow's "imaginative contribution to a new concept of intercontinental microwave communication, and skill, persevering guidance of the research and development that translated the concept into a successful experimental test."

The recent testing of this concept in the Project West Ford experiment demonstrated that a narrow belt of orbiting metallic filaments can be

(Please turn to Page 3)

Conference December 7

Fraternity alumni to meet; Will discuss loan sources

New sources of funds for fraternities will be a major topic of discussion at the MIT Fraternity Alumni Meeting December 7. Sponsored by the Institute, this meeting will bring together alumni from each of the MIT fraternities, officers of the Intrafraternity Conference, and officials of MIT, to discuss financial and other matters.

According to F. W. Watriss, Assistant Treasurer, MIT hopes to set up, as a result of this conference, a special fund from which fraternities may borrow money. Such a fund would provide larger loans to fraternities at lower interest rates than are currently available from MIT.

Watriss indicated that this fund would help fraternities in keeping their expenses down to a level comparable with the dormitories. He cited that fraternities, taxabe

as non-profit corporations, incur greater expenses than the tax-exempt dormitories. "This is our way of helping them," concluded Watriss.

With current endowment funds, MIT may make loans of up to 60% of maximum property value at 5% interest, to fraternities requesting such aid.

Other topics of discussion at the meeting will be property location, physical plant, safety, health, and architecture as related to the fraternity.

The meeting wil open 9:00 a.m. in Rm. 10-150. The morning agenda includes a discussion period followed by a bus tour of Cambridgeport and Back Bay.

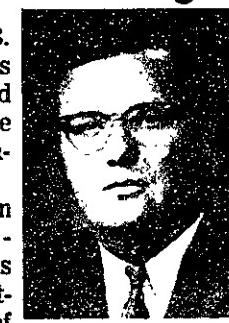
After lunch, the group will tour Baker and Burton House. Following this, there will be the discussion of funding. The meeting will close at 4 p.m. with a summary of the day's events.

Finn now head of Industrial Liaison Office; Had served as acting director during past year

Richard B. Finn Jr. has been appointed Director of the Industrial Liaison Office.

Mr. Finn, an electrical engineer, has served as acting director of the ILO during the past year. He received his B.S. and M.S. degrees from MIT in 1955.

Mr. Finn will head the office that administers the Institute's



Richard Finn

scientific relationships with industry under the Industrial Liaison Program. Now in its sixteenth year, the program provides an organized means through which a selected group of about 115 research-based companies keep in close touch with MIT programs of education and basic research in science, engineering and industrial management.

Among the participants in the program are representatives from the electronics, aerospace, chemical, automotive, rubber, metals, and insurance industries.

Student Center offices

More activities get plans

The second group of activities to receive plans for their offices in the new Student Center will meet with the Center Committee within the next two weeks. In addition to room assignments, they will receive prints of the furniture arrangements in the offices.

Activities slated to attend the meeting are: Alpha Phi Omega, Debate Society, Dramashop and Tech Show, Lecture Series Committee, Musical Clubs and Baton Society, Outing Club, the religious organizations, Science Fiction Society, and Technology Community Association.

Each activity will be requested to submit a brief report expressing its comments about its facilities, according to Art Bushkin, co-chairman of the Student Center Committee.

Similar plans have been released already to the five student publications—The Tech, Tangent, Tech Engineering News, Technique, and Voo Doo.

After the second meeting, the next section to be considered will be the student government complex.

At a meeting in the Dean's Office Monday, the case for an arts and crafts center in the new building will be considered. Other alternatives include individual recreational facilities, such as Ping-Pong and pool. Attending the meeting will be the Student Center Committee and representatives of various arts and crafts

groups and the Dean's Office, as well as Professor Catalano.

Summarizing the Committee's work thus far, Bushkin stated: "Although at the beginning of the term a number of minor unsolved problems necessitated delays in the originally planned release of information, we are pleased to announce that we will have released plans for the greaeter portion of the third floor before the Christmas vacation.

"I was personally quite amazed by the speed with which the architect has been able to produce drawings of the individual offices."

Gunness gets life

Dr. Robert C. Gunness has been elected a Life Member of the MIT Corporation.

Dr. Gunness, a Director and Executive Vice President of Standard Oil of Indiana, served as an Alumni Term Member of the Corporation from 1958 to 1963. He received his S.M. and Sc.D. degrees from MIT in 1934 and 1936, respectively. He was an Assistant Professor of Chemical Engineering here before joining Standard Oil of Indiana in 1938.

Dr. Gunness served for one year as Vice Chairman of the Research and Development Board of the Department of Defense. He became Vice President of Standard Oil of Indiana in 1956. He is a Trustee of the University of Chicago and the John Crerar Library.

His professional affiliations include the American Institute of Petroleum Engineers, the American Chemical Society and the American Society of the American Petroleum Institute.

There are 71 members of the Corporation. Forty of these are Life Members.

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HIRDL facility dedicated at Brookhaven

The High Intensity Radiation Development Laboratory (HIRDL), a facility designed to advance the Atomic Energy Commission's program for process radiation development, was dedicated on November 22 at Brookhaven National Laboratory in Upton, Long Island, New York.

The HIRD L is designed to: 1) obtain engineering data on a variety of gamma radiation sources in the million-curie range; 2) develop more efficient techniques for handling large-scale radiation sources; and 3) train scientists and engineers in the uses of such radiation sources for research purposes, and ultimately for industrial applications. This information is essential for the design of future irradiation facilities which would be useful in a wide variety of applications of radia-

tion energy. Those currently under development include the production of plastics and chemicals, cold sterilization of drugs and medical supplies, and pasteurization of perishable foods.

Most of the sources to be employed in this laboratory are of cobalt-60 and cesium-137; the total level of radiation will be approximately two million curies.

The main design features of the HIRD L are two unique cells, developed by engineers and scientists of the Nuclear Engineering Department at Brookhaven National Laboratory. One is an irradiation cell, for the experimental work with radiation sources; the other is a work preparation cell, where various types of sources will be prepared for experimental use. A shielded area

is provided for radiation sources not being used.

The cost of the HIRD L, including equipment, is \$1,850,000. The total area of the building is approximately 15,000 square feet.

HIRDL is part of the AEC's Radiation Development Center, which will not only serve Brookhaven's various research programs, but will also be available on a limited basis to visiting scientists interested in the various applications of radiation technology.

On the other side of the world

Indian fresh 'ragged' extensively

A couple of years ago, at Lucknow University, the student government led an all-out strike against the University for a full two months. The reason: an examination that was too difficult.

Many and varied are the ways in which student governments function around the world, yet few would expect such a bizarre waste of time as this. Although this particular exam meant a degree for the matriculants, resort to a student strike of this proportion would be considered ridiculous almost everywhere else but in India.

"Freshers" in India, having graduated from an eleven year secondary school, and being free for the very first time from close family supervision, are younger and less experienced than their American counterparts. Hence they are particularly open to the pranks and demagoguery that the upperclassmen feel free to show upon them.

Their first introduction to college life is a period of hazing, called "ragging" in India, that makes Hell Week here seem like child's play. It is especially vicious as it represents the first break in the students heretofore sheltered lives.

At the Indian Institute of Technology, several students had been ragged so severely just before I arrived that the administration was just then considering the expulsion of the offending upperclassmen, in the face of protest by the Freshers' parents.

"What is ragging like in America?" was the first question on every student's lips at IIT, even before questions on integration and on Kashmir.

The lack of maturity evidenced in ragging unfortunately carries

over to the activities of some of the student governments in India as well, especially at Lucknow. There, students standing for election to office can buy for 75 Rupees the right to paste campaign posters all over the school buildings. More often than not, the money comes from National political parties, which extend their influence right into the campus.

Student elections are preceded by a month of wild campaigning totally unimaginable at MIT. Candidates stir up rallies, and supporters carrying pennants lead parades of followers around the buildings on campus, exhorting them with such chants as: "Vote for Krishna, He's our brother; Vote for . . ."

Lucknow is perhaps the extreme case in India, yet it serves to illustrate one of the causes that leads to an uneasy relationship between students and school administrations there.

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Required humanities to emphasize 'in depth' study in four areas

(Continued from Page 1)

cused by the Policy Planning Committee of the Department of Humanities and by the department's faculty members.

Prof. Bettiglio also indicated

that the proposals are in line with academic changes suggested by Prof. Jerrold R. Zacharias and his Committee on Curriculum Planning.

Technique will cost \$10 after Friday; \$2 more

Friday is the last day that Technique, MIT's year book will be sold for \$8.00. After that date, the price of the book will be \$10.00.

Monday, December 9th, and

Tuesday, December 10th

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Awards given for invention, education, achievement

(Continued from Page 1)

used for reliable, long-distance radio communications. M I T's Lincoln Laboratory has been conducting Project West Ford for the Air Force since 1958.

ACS Honors Ashdown

Dr. Ashdown was honored by more than 300 professionals of the Northeastern Section of the American Chemical Society at a testimonial dinner at MIT. In addition, Dr. Ashdown was given a National American Chemical Society Award, the \$1000 James Flack Norris Award "for outstanding achievement in the teaching of chemistry."

Dr. Ashdown received A.B. and M.A. degrees from the University of Rochester and the PhD. from

American Chemical Society at a testimonial dinner at MIT. In addition, Dr. Ashdown was given a National American Chemical Society Award, the \$1000 James Flack Norris Award "for outstanding achievement in the teaching of chemistry."

He is editor of the Nucleus, a publication of the American Chemical Society. He has served the Northeastern Chapter of this society in varied official capacities.

Belluschi Receives Medal

Dr. Pietro Belluschi, the Dean of Architecture and Planning at MIT, was announced as the Italian-American Charitable Society Medal of Honor Winner for 1963.

Born in Ancona, Italy, Dr. Belluschi holds degrees from the University of Rome and Cornell University. Between 1925 and 1943, he rose to head the Portland, Oregon, branch of one of the nation's largest architectural firms. In 1951, he became MIT's Dean of Architecture and Planning.

Prof. John T. Howard received the Distinguished Service Award of the American Institute of Planners. He was cited as an outstanding planner, administrator, and educator. In 1949 he became an Associate Professor of City Planning at MIT. He became Professor and Head of the department in 1957.

Experimental films made available by national fluid mechanics group

A number of films depicting experimental phenomena in fluid mechanics have been made available to MIT staff members. The films are for experimental use and for evaluation of the different ways in which film can be used effectively, both inside and outside the classrooms.

The films are being produced and distributed by the National Committee for Fluid Mechanics Films, headed by MIT Professor Ascher H. Shapiro of Course Two. The committee is composed of professors in departments of engineering at 9 universities in the United States, and represents a larger group of cooperating institutions for which the films are being produced.

Administrating the program at MIT is Assistant Professor George S. Springer of Course Two. Professor Springer has announced that the available films are being circulated to staff members requesting them from the circulation desk of the Engineering Library.

Seven films

The committee, operating under a National Science Foundation grant of \$324,000, has produced seven films to date. They are "Fluid Dynamics of Drag"

By Toby Zidle

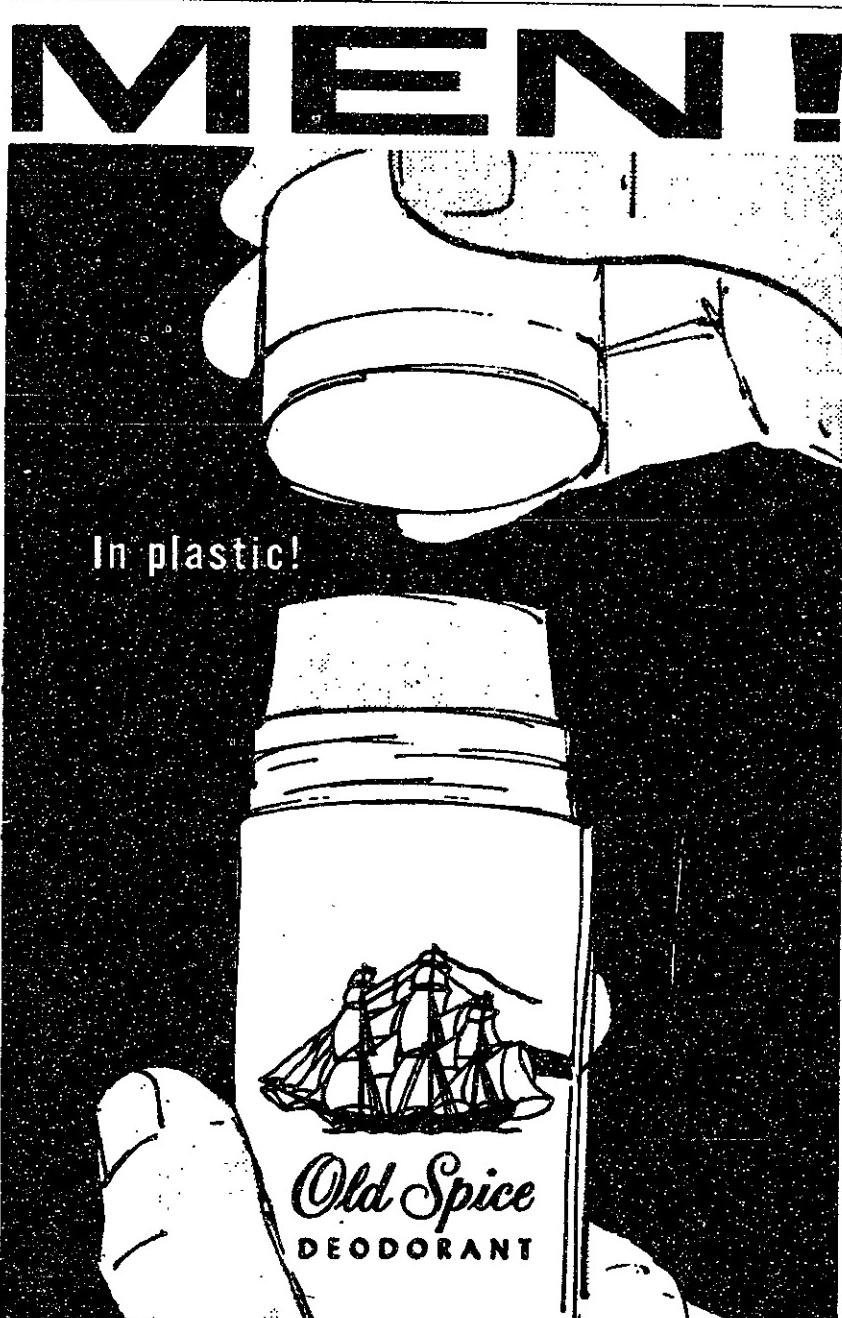
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ALSO

"The Supreme Court and Its Critics": Judge Irving R. Kaufman discusses the extent to which the Supreme Court appears to have taken on an educational function and how such change can be justified.

Stories and Poems by: Dudley Fitts, N. J. Berrill, Ted Hughes, Peter Davison, Muriel Rukeyser, Sallie Bingham, Jesse Hill Ford, Jeannette Nichols and others.

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Liberal Religious Students (LRS)

Sunday, Dec. 8th

"THE HARVARD AFFAIR"

4 p.m. The student point of view... discussion

6 p.m. Student supper, 75¢

The Student Center is located 3 blocks from Arlington St. MTA station at 64 Marlborough St., Boston (corner of Berkeley St.). All interested students are welcome... bring a friend!

(4 thirty minute parts), "Vorticity" (45 minutes), "Pressure

Fields and Fluid Acceleration" (30 minutes), "Flow Visualization" (30 minutes), "Separated Flows" (30 minutes), "Smoke Flow Studies" (30 minutes), and "Secondary Flow Processes" (25 minutes).

An eighth film, "Deformation of Continuous Media" (30 minutes) will be released November 15. Further releases entitled "Waves in Fluids" and "Surface Tension" are expected during the semester.

Effective in classroom

In explaining the value of these films, the Committee reported that "the problem of demonstrating experiments to classes can be solved effectively by recording the demonstrations once and for all on film. Motion-picture techniques offer many advantages over even the best 'live' presentation. Unsurpassed views can be had: views from every angle, close-ups of critical areas, slow motion, lapse photography, animation — all these provide a richness of experience as well as a sense of presence. Every student has a front row seat."

By Toby Zidle

Santa Claus arrives early at RPI, brings with him \$11-million present

Santa Claus came early this year to Rensselaer Polytechnic Institute. Through the settlement of an estate and trust fund established by the heirs of the late William B. Cogswell, RPI Class of 1852, Rensselaer has received a bequest of \$11,703,058, the largest single grant in RPI's 139-year history.

The bequest has increased Rensselaer's total endowment by nearly 50 per cent to \$37,842,304. Its use is not restricted.

Dr. Richard G. Folsom, President of RPI, has indicated that the school's trustees are making plans for RPI's 150th anniversary in 1974. "This gift of a great benefactor of Rensselaer," he said, "is an inspirational lift to

meet the challenges of the future. It will permit Rensselaer to proceed with greater confidence in the implementation of its present program and its plans for the future."

First Plans Announced

RPI has already announced the first of its programs to meet the challenge of the future. This is a drastic change in its engineering curriculum "in an attempt to close the gap between accumulated knowledge and its use in society."

The new program includes a three year pre-engineering course which is designed so that engineering majors in all fields will take the same courses. After three years, the student will have the option of studying for one more year and receiving a non-accredited bachelors degree or going on for two more years and receiving a masters degree in his field.

This new program will not affect present students at RPI, but all incoming engineering freshmen next year will be required to follow the program.

Rules and Regulations

Most schools do have rules and regulations intended to maintain some control over students' behaviour. These, of course, range from dormitory curfews to rules governing the consumption of alcoholic beverages. Frequently, requests are made to have these rules liberalized, particularly in the areas of curfews and dorm visiting hours, and many of these requests are granted.

Few requests, however, have been as encompassing as a resolution passed unanimously by the executive board of the Young Americans for Freedom at the University of Colorado.

The resolution states, in part, that the members of the YAF at Colorado "oppose the rules and regulations of the University, and its adjuncts, concerning compulsory residence regulations, such as women's hours, and other regulations governing personal activities and other sectors of the individual's private life."

The group outlines in the resolution its belief that the University has no moral right to regulate the individual lives of its students."

"Such unjust regulation is inimical to the spirit of individual freedom," the resolution declares. "We hold that each individual has the right to live his own private life free from arbitrary restriction."

The YAF stand is not the first such action taken this year by Colorado students against the university's regulations. A similar resolution was passed by Students for Political Education, Action, and Knowledge.

The SPEAK resolution urged "reform and revision of those archaic and outmoded regulations established under legally dubious 'in loco parentis' provisions."

The resolutions, predictably, have not been well received by school officials.

The Work of Professionals

Dorm hours will be postponed indefinitely at a new dorm on the Altoona campus of Pennsylvania State University. This action was prompted not by a student resolution, but by the "work of professionals."

The building, nearing the final stages of construction, suffered extensive damage in an explosion. Investigators found fragments of a slow-burning fuse used to set off an estimated dozen sticks of dynamite. State police concluded the blast was "evidently a professional job."

The dormitory had been the scene of repeated flareups between union and non-union workers. Contractors have been using non-union workers.

An October court injunction had prohibited the Carpenters and Joiners Union of Pittsburgh from any further picketing or violence at the construction site following three months of demonstrations.

Art course needed

Despite the recent growth of the Humanities Department at MIT, the Institute still does not have a single course in art appreciation or history of art.

About fifteen years ago, when the Institute was weak in both art and music, the administration decided to build one area first, then the other. Music was given the first priority, and today there are seven music courses, several musical clubs and frequent concerts on campus. This part of the Institute's cultural expansion has been highly successful.

In the fine arts, however, the situation is little better than it was in the forties. There are several studio courses

in the Architecture Department, but these are primarily professional or technical courses for Course IV majors.

The Humanities Department points out that students can register for courses at Harvard, but the regulations keep out the majority of students who have less than a B average. And even for Dean's List students, the red tape and prospect of making several dozen trips to Harvard pose another barrier.

The lack of at least one history of art course at MIT is a lamentable weakness in our humanities program. A course covering painting, drawing, and sculpture should be started soon. Why not next term?

Less pomp, more circumstance

The Association of Women Students has tentatively proposed that a "symposium" be held this spring on the problems of "Women in Science."

We wish the AWS success in their endeavors; but two major obstacles to that success must be overcome:

1. Advance publicity. Many student-organized conferences in the past, of similar scope, have failed to leave detectable marks on history for the simple reason that public relations and publicity work were not given proper emphasis or were inadequately handled.

2. Definition of topic. The topic of any symposium or conference should be well-defined in order to attract informed speakers and participants interested in more than vague generalities.

The problems faced by "women in science" does not meet the above criteria — any more than a topic "men in science" would.

Odious, yet unspecified, burdens upon women in science exist, clearly enough. But which ones will be under consideration? Their employment problems? Their educational problems? Their marital problems?

The topic as it stands is so nebulous that we wonder whether the proposed two-day conference will run into overtime sessions.

Perhaps the definitions of the problems must be left to the participants of the conference. Meaningful statistics, for example, could be gathered to fill the now vacuous gaps in public knowledge. The existence of any problem is never enough: its extent must be known before a solution may be intelligently considered.

Good speakers essential

Presumably, speakers with the diverse backgrounds—industrial, professional, and educational—could be assembled to offer not only stimulating discourse but concrete suggestions. Moreover this would facilitate the publicity necessary for a successful conference.

The avowed purpose of the conference — to acquaint the public with the problems of women in science — is desirable, but mere talk will not accomplish this. An effective propaganda program must be planned well in advance.

Possibly a national news magazine would like to cover this event in their education section, if informed far enough

Letters to The Tech

Incomm member criticizes students

TO THE EDITOR:

As a representative of the students of MIT on their Institute Committee, I have always felt that my primary responsibility is to act in accordance with their interests. In many cases this has been difficult, and in the recent past it has become impossible.

In recent weeks there have been a number of irresponsible actions by individuals and groups at MIT. These include an obscene issue of the Burton House Reflector, a raid on McCormick Hall, Leonard Levin's letter to Time, the subse-

quent riot on Levin's room, and the theft of \$800 of telephone equipment.

The men and women of MIT have, in the past, earned the right of independence from Institute control. This right was bought with the burden of responsibility for their actions; not only as they affected the student, but more heavily, as they affected the educational system, the Institute, and the entire student body. This burden is as rare in other institutions as the accompanying independence.

The student government cannot accept this responsibility alone, and those students who have rejected it no longer have a claim

to independence. The greater majority, who have not recognized it, must weigh their actions and indifference in a stronger light.

Responsible action can again earn the right of independence for the student of MIT.

D. E. SULLIVAN '64
IFC Representative to
Incomm

LSC praised

To the Editor:

We would like to take this opportunity to express our particular appreciation to the LSC for their unselfish efforts in putting together

(Please turn to page 5)

Creator of Peanuts

Computers replace cartoonists? Charles Schulz isn't worried a bit

Cartoonist Charles M. Schulz, creator of the "Peanuts" moppets, insisted that "I express my feelings better in cartoons," when we asked him for an interview.

We were interested in speaking to Mr. Schulz as a result of his latest Peanuts addition — a little fellow named "5" for short. His real name is 555-95472 — and the accent is on the 4 in case you are wondering how to pronounce it. 5 has two sisters called 3 and 4, nice feminine names according to Charlie Brown.

5's father just got hysterical one day over the post-office area and ZIP codes and renamed all his children numbers. However, 5 hastens to explain that this wasn't a protest, just "his way of giving in."

The ZIP code finally got under Schulz's skin — not so much because "it annoyed me personally," he admits, but "I noticed it annoyed other people so much," he said. "Here in Sebastopol, (California) we used to get San Francisco information, 60 miles away, by picking up the phone and asking for 'information, please.' Now we have to dial 112-415-555-1212, and then get another number in return."

"In our striving for clarity we are getting more confused — of names. "Possibly," he said. "And, surely Charlie Brown would be called 0."

Names as well as numbers seem to confuse old stand-by Snoopy, a worldly hound who never forgets a face but can't quite remember if it is V or 5. But then in these days of computers we all get confused some times. Although pint-sized Sally has mentally dismissed 5 as a matrimonial prospect — Mrs. Sally 95472 is just too silly — she likes him in spite of his name.

Numbered roses

Schulz also noticed that "it might bother some of our favorite themes like 'a rose by any other name...'" He trailed off his thoughts at this point, looked at his watch and mentioned that he had five children, names or numbers, to take to school.

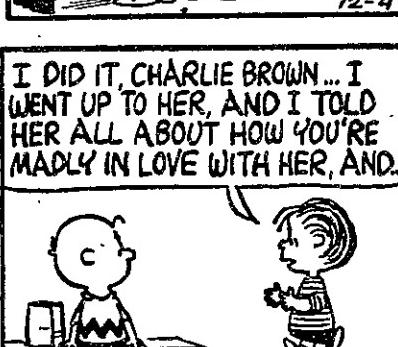
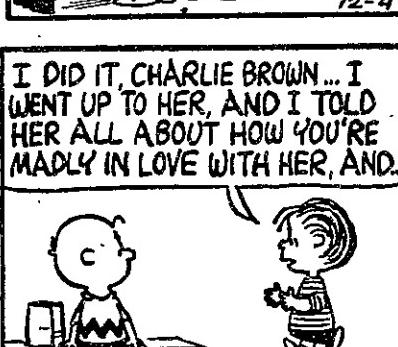
National Cash Register recently read into a computer data on a "Peanuts" favorite, Linus. This computer apparently decided to revenge all computers being blamed for the present numberitis — and made people! That is, it made a lifelike drawing of Linus, blanket and all, seemingly determined to replace comic artists.

Computer cartoons

This particular computer drew him out of alphabetical letters, but until comic strips are zipped out entirely by "thinking machines," millions of newspaper readers will continue to enjoy the wit that flows from Schulz's pen. He isn't worried at all.

"I don't think computers will replace comic artists ever. The most difficult thing about doing a comic strip is knowing how to wrap the package. It is very important to know how to mail it and go to the post office. I don't think a computer would know how," Schulz quipped.

Wrapping the packages might be a chore to Charles M. Schulz but drawing his "Peanuts" friends comes naturally. This time he has come up with an A-1 character that amuses even the tiredest, number-logged reader. Judging by the reaction, "Peanuts" fans have certainly taken this numerical lilliputian addition to heart as they have the rest of the clan.



Peanuts appears daily and Sunday in the Boston Herald.

Meeting at Americana

NIC to discuss ideals of fraternities

The 54th annual convention of the National Interfraternity Conference will be held in New York at the Hotel Americana on December 5.

Almost 1000 participants are expected to attend the 3-day meeting, consisting of graduate delegates from 60 member fraternities representing 3500 chapters in 365 institutions, 400 representatives of undergraduate interfraternity councils, together with college deans and student advisors and prominent educators, business and professional leaders active in fraternity administration.

Representing the MIT Interfraternity Conference will be delegates Don Shulman '65 of Alpha Epsilon Pi and J. D. Roach '65 of Delta Upsilon who were elected at the IFC meeting of November 14 from a field of five candidates.



DECK THE HALLS

The time has come to think of Christmas shopping, for the Yuletide will be upon us quicker than you can say Jack Robinson. (Have you ever wondered, incidentally, about the origin of this interesting phrase "Quicker than you can say Jack Robinson"? Well sir, the original saying was French—"Plus vite que de dire Jacques Robespierre." Jack Robinson is, as everyone knows, an Anglicization of Jacques Robespierre who was, as everyone knows, the famous figure from the French Revolution who, as everyone knows, got murdered in his bath by Danton, Murat, Caligula, and Al Capone.

(The reason people started saying "Quicker than you can say Jacques Robespierre"—or Jack Robinson, as he is called in English-speaking countries like England, the U.S., and Cleveland—is quite an interesting little story. It seems that Robespierre's wife, Georges Sand, got word of the plot to murder her husband in his bath. All she had to do to save his life was call his name and warn him. But, alas, quicker than she could say Jacques Robespierre, she received a telegram from her old friend Frederic Chopin who was down in Majorca setting lyrics



all she had to do was call his name

to his immortal "Warsaw Concerto." Chopin said he needed Georges Sand's help desperately because he could not find a rhyme for "Warsaw." Naturally, Georges could not refuse such an urgent request.

(Well sir, off to Majorca went Georges, but before she left, she told her little daughter Walter that some bad men were coming to murder Daddy in his bath. She instructed Walter to shout Robespierre's name the moment the bad men arrived. But Walter, alas, had been sea-bathing that morning on the Riviera, and she had come home with a big bag of salt water taffy, and when the bad men arrived to murder Robespierre, Walter, alas, was chewing a wad of taffy and could not get her mouth unstuck in time to shout a warning. Robespierre, alas, was murdered quicker than you could say Jacques Robespierre—or Jack Robinson, as he is called in English-speaking countries.

(There is, I am pleased to report, one small note of cheer in this grisly tale. When Georges Sand got to Majorca, she did succeed in helping Chopin find a rhyme for "Warsaw" as everyone knows who has heard those haunting lyrics:

*In the fair town of Warsaw,
Which Napoleon's horse saw,
Singing cockles and mussels, alive alive o!*

But I digress.

We were speaking of Christmas gifts. What we all try to find at Christmas is, of course, unusual and distinctive gifts for our friends. May I suggest then a carton of Marlboro Cigarettes?

What? You are astonished? You had not thought of Marlboros as unusual? You had regarded them as familiar, reliable smokes whose excellence varied not one jot nor tittle from year to year?

True. All true. But all the same, Marlboros are unusual because every time you try one, it's like the first time. The flavor never palls, the filter never gets hackneyed, the soft pack is ever a new delight, and so is the Flip Top box. Each Marlboro is a fresh and pristine pleasure, and if you want all your friends to clap their hands and cry, "Yes, Virginia, there is a Santa Claus!" you will see that their stockings are filled with Marlboros on Christmas morn.

© 1963 Max Shulman

* * *

The holiday season or any other season is the season to be jolly—if Marlboro is your brand. You'll find Marlboros wherever cigarettes are sold in all fifty states of the Union. You get a lot to like in Marlboro Country.

Inside Inscomm

24 MIT students may go abroad on 'exchange jobs' next summer

By Pat Winston '65

Editor's Note: Pat Winston '65 is chairman of the Foreign Opportunities Committee.

Government and international agencies have little to offer the recent technical graduate who wants to use his education to advantage, said Dean Moran.

Speaking to 30 student leaders in Washington DC, the dean of the Georgetown School of Foreign Service added that only mature people are usually considered for technical jobs abroad.

Said Moran, while technical advisors and planners are needed, commitments are usually short-term, and opportunity for assimilation into high-level administrative circles are slight, at best.

He spoke Thanksgiving weekend at the first meeting of a three-part conference on 'The Foreign Service Student.' Jerry Luebbers '64, UAP, and I represented MIT.

Summer jobs abroad

This summer the Foreign Opportunities Committee plans to have about two dozen MIT students working abroad. Working with the International Association of Students for Technical Exchange, the FOC program will have students working in Western Europe.

The program will work like

this: IASTE and the Placement Office try to locate a summer job for an MIT student. The student is expected to pay his round trip transportation, as well as locate a job in America for a foreign student.

Both the Placement Office and the FOC interview the MIT student, and while there is no guarantee that they will be able to find a job, students who locate 'exchange jobs' are more likely to get jobs abroad.

Junior year abroad

Prof. John T. Norton of the Metallurgy Department is collecting information about junior year abroad programs in which MIT students could participate. While nothing definite on this, the FOC hopes to see five MIT students abroad next year.

The FOC would like to meet freshmen and sophomores who would be interested in spending a year abroad. FOC wants to find out what sort of program they would like, in which countries, what background they have, etc.

In addition, during the next month there will be ten positions open on the Foreign Opportunities Committee. I will interview interested students.

Letters to The Tech

(Continued from Page 4)

er the near-professional program for the Memorial Convocation honoring President Kennedy. Specific thanks to Craig Schiele and Kip Hammond who spent an inordinate amount of time on eight-hour notice.

We are similarly grateful to the entire community, for we found cooperation of this sort in all

quarters. The tragedy of the event was somehow mitigated by the sincere concern of the MIT community as evidenced by their ready willingness to aid in the MIT observance of the death of John F. Kennedy.

Jerry Luebbers
Steve Miller
Dick Carpenter

WINTER 1963-1964

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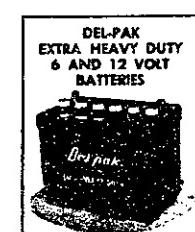
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Page 6 Tech and Wheelock
to give 'Messiah'

The combined MIT and Wheelock College Glee Clubs will give a performance of Handel's 'Messiah' December 8 at 3:00 in Kresge Auditorium.

The orchestration they will use is Handel's 1741 score, instead of the versions by Mozart, Franz and others usually used.

The choral score has been embellished with graces, runs, and trills typical to the 18th century.

Tickets are free in the lobby of Building 10.

Wednesday, December 4, 1963

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movies ...

'Wheeler Dealers' amusing although unoriginal

By D. F. Nolan

"The Wheeler Dealers," currently playing at the Saxon, is the movie that has everything. Unfortunately, everything it has is old-hat and stereotyped almost to the point of being a joke.

It has millionaire Texans, complete with cowboy boots, private airplanes, and cars with two telephones. It has a Wall Street stockbroker of dubious ethical standards. It has an abstract impressionist artist, complete with the usual following of fakes, beatniks and queers. It has a plot that has been used in every Doris Day movie since 1957. It has dialogue that ranges from the trite to the ridiculous. It even has a happy ending.

The film begins with Henry Tyroon (James Garner), a Texas millionaire, discovering that he is \$1.2 million in debt, and that he has thirty days to dig up the scratch. So, off he goes to New York, to do some wheelin' and dealin'.

Meanwhile, in New York City, an attractive young security an-

alyst named Molly Thatcher (Lee Remick) has been given thirty days to unload some worthless stock in Universal Widget Company of Massachusetts. If she fails, her boss, Mr. Bear (Jim Backus) will fire her.

For the next hour and a half, there follows a sequence of events involving Henry, Molly, and the stereotypes mentioned in paragraph one. All the usual scenes are there — Molly and Henry in the exclusive French restaurant, Molly and Henry in adjoining rooms at the hotel, Molly and Henry in Henry's apartment.

The action ranges from Texas to New York to Massachusetts in a mad mélange of clichés — Henry's three raucous business buddies from Texas keep showing up at inopportune times and demanding to be let in on the "action," Henry dabbles in every financial venture from stock manipulation to wholesale buying of modern art (which Henry describes, not inaccurately, as "scartchy painting") to buying taxicabs, and Henry and Molly spend their off hours playing "getting to know you."

All turns out well, of course, but

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M.I.T. Dramashop "Bartholomew Fair"

By Ben Jonson

Directed by Joseph D. Everingham
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at 8:30 P.M.

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better off as the voice of Mr. Magoo. Louis Nye as Stanislaus, the eccentric artist, is clever and capable, taking a totally stereotyped part and rescuing it from mediocrity. Patricia Crowley as Molly's roommate Eloise is acceptable but unimpressive.

Despite its almost unbelievable lack of originality, "The Wheeler Dealers" manages nonetheless to maintain a level of entertainment sufficiently high to prevent boredom and amuse the average moviegoer, who is seeking only a pleasant evening's diversion for himself and a date. There are several highly entertaining scenes, and a few very clever lines, the best, perhaps, being Mr. Bear's reply to Molly's inquiries as to the worth of his word — "Well it varies."

Although certainly not an outstanding film in any sense of the word, "The Wheeler Dealers" rates as acceptable entertainment, although nothing to go out of your way to avoid missing. If you have nothing else to do this Saturday, then by all means go see it.

movie schedule

Wednesday, December 4 through Tuesday, December 11 (Unless otherwise stated the Sunday schedule is the same as the weekdays schedule except that no movies are shown before 1:00 A.M.)

ASTOR — 'Under the Yum Yum Tree.' 10:00, 12:00, 2:00, 4:00, 6:00, 8:00, 10:00.

BEACON HILL — 'The Incredible Journey.' 9:00, 10:50, 12:40, 2:30, 4:40, 6:10, 8:00, 9:40; Sun., 1:00, 2:50, 4:40, 6:30, 8:20, 10:00.

BRATTLE — 'Don Quixote' through Sat. Starting Sun. Orson Welles' 'Othello.' Shows daily 5:30, 7:30, 9:30; mats, Sat. and Sun. at 3:30.

BOSTON CINERAMA — 'It's a Mad, Mad, Mad, Mad World,' evenings at 8:00, Sun. evening 7:30; matinees Wed., Sat., & Sun. at 2:00.

CAPRI — 'The Incredible Journey.' 9:00, 10:50, 12:40, 2:30, 4:40, 6:10, 8:00, 9:40; Sun., 1:00, 2:50, 4:40, 6:30, 8:20, 10:00.

LOEW'S ORpheum — 'McLintock!' 10:12, 12:30, 2:50, 5:10, 7:30, 9:50; Sun., 1:00, 3:12, 5:25, 7:30, 9:50.

LSC — 'Boccaccio '70.' Dec. 6, Kresge, 6:00; 9:00; Showboat, Dec. 7, Room 10-250, 6:15, 9:30; 9:45; The Joyless Street, Dec. 8, Room 10-250, 6:30, 9:00.

PILGRIM — '30 Years of Fun.' 9:35, 12:15, 3:00, 5:45, 8:20, Sun., 1:00, 3:25, 5:50, 8:25; 'Knockers Up.' 11:05, 1:50, 4:30, 7:10, 9:45, Sun., 2:25, 4:50, 7:25, 9:50.

PARK SQUARE CINEMA — 'My Life to Live.' 1:30, 3:10, 4:50, 6:30, 8:15, 10:00.

SAXON — 'The Wheeler Dealers.' 10:00, 12:00, 2:00, 4:00, 6:00, 8:00, 10:00; Sun., 1:30, 3:30, 5:30, 7:30, 9:30.

UPTOWN — 'A New Kind of Love.' 1:20, 5:25, 9:30, Sun., 1:05, 6:15, 9:20; 'The Haunting.' 11:05, 3:15, 7:20; Sun., 3:10, 7:20.

WELLESLEY COMMUNITY PLAYHOUSE — 'Great Expectations,' evenings 7:45; matinees Wed., Sat. 2:00.

WEST END CINEMA — 'The Conjugal Bed.' 11:50, 1:50, 3:50, 7:50, 9:50; Sun., 1:35, 3:35, 5:35, 7:35, 9:35.

Theatre Schedule

CHARLES PLAYHOUSE — 'Rhinoceros,' Tues.-Fri. 8:30, Sat. 5:30, 9:00; Sun., 3:00, 7:30.

IMAGE — 'Ghosts.' Sat. 7:00, 9:30; Wed.-Fri. 8:30.

LOEB DRAMA CENTER — 'The Gondoliers,' Dec. 5-7, 11-14, 8:00.

WILBUR — 'Nobody Loves an Albatross,' evenings 8:30; Matinees Wed. 2:15, Sat., 2:30.

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Critic's Choice**John Wayne having fun out West in 'McLintock'**

By Gilberto Perez-Guillermo

John Wayne has been too often the object of those frequent attacks against Hollywood and its stars. Admittedly, Wayne has a rather narrow range of expression ("I always portray myself on the screen"), but, as Humphrey Bogart said, he is a fine actor within his limitations. The star of 'Stagecoach,' 'Red River,' 'The Quiet Man,' and 'Rio Bravo,' among many notable films, Wayne has many commendable performances to his credit, and has done nothing to deserve the hostility of his detractors. Most Hollywood stars, after all, have an equally narrow range of expression. For better or worse, this is what gives the Hollywood star system its peculiar quality: in a movie with Cary Grant, one expects to see Cary Grant himself, not an actor playing a role.

Wayne has been under the direction of John Ford in many films, from that classic, 'Stagecoach,' to the recent 'Donovan's Reef,' and the actor's personality has developed parallel to the director's, each being a complement to the other. In 'Donovan's Reef,' John Ford and his troupe of actors set out to have fun, and the result was a self-indulgent display of the director's personality, which may be thought of as Ford's '8½.' In 'Donovan's Reef,' Wayne played an integral part, and now he has produced a 'Donovan's Reef' of his own, 'McLintock' (at the Loew's Orpheum). Despite the absence of Ford's visual style, of his expert control of apparently loose material, Wayne has done a reasonable job on his own. With many actors from the Ford troupe, even including Maureen O'Hara, the classical Ford heroine, with a plot as perfunctory as the one in 'Donovan's Reef,' with a good many situations reflecting the typically rough Ford-Wayne brand of humour, Wayne seems to be having as much fun as he had in 'Donovan's Reef,' and some of it gets through to us.

Wayne gets drunk, falls downstairs several times trying to reach his bedroom, starts a fight in the mud after saving an Indian from being lynched, chases Maureen O'Hara around town and finally spansks her. He "likes his whiskey hard, his women soft, and his West all for himself." The film gets out of hand on occasion, becomes a bit monotonous at times, but the over-all effect is satisfactory.

Roberto Rossellini's 'The Open City' (at the Ivy Film Series, Harvard), one of the initiators of the Italian neorealist movement, retains, after eighteen years and

despite lapses into sentimentality, every bit of its emotional power. Who can forget the death of Anna Magnani as she runs down the street?

'Boccaccio '70' (at the LSC Contemporary Series) is a strictly commercial enterprise in three episodes, each directed by an Italian film-maker of wide reputation, in every case the result falling considerably below its director's best efforts. Only the Visconti segment, with its ironic view of the Italian upper class, bears watching. A very minor work, but a pleasant one, with an edge of tenderness, a thoroughly amusing strip-tease sequence, and an excellent performance by Romy Schneider. The Fellini episode is a repetitive satire of censorship, vulgar, self-indulgent in the director's latest manner, and without any of the redeeming features which may be found in 'La Dolce Vita' and '8½.' The de Sica episode is completely worthless.

By the way, I suspect someone from LSC must have contributed to the back page of the latest issue of 'Voo Doo,' for otherwise I cannot understand the long, semi-disguised, totally undeserved defense of the organization.

FILMS TO AVOID: 'Heavens Above,' 'Cleopatra,' 'Irma la Douce,' 'The Thrill of It All,' 'If a Man Answers,' 'Wives and Lovers,' 'The Ugly American,' 'Days of Wine and Roses,' 'The VIP's.'

FILMS TO SEE: 'Divorce Italian Style,' 'Lawrence of Arabia,' 'The Man in the White Suit,' 'Rock-a-Bye, Baby,' 'McLintock.'

FILMS NOT TO MISS: 'The Open City,' 'My Life to Live,' 'The Leopard,' 'The Birds.'

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"The Thrill of It All"
"The Ugly American"

- Through Saturday
"Don Quixote"
- Starting Sunday
Orson Welles' "Othello" 5:30, 7:30, 9:30
- Sat. and Sun. Matinees at 3:30

LECTURE SERIES COMMITTEE CALENDAR

Festival of the Performing Arts Film Program

ANDRES SEGOVIA

Wednesday December 4
7:00 P.M. 10-250
FREE

A Lecture
SERGE LENTZ
"EXPLOSIVE RED CHINA"

Wednesday December 4
8:00 P.M. KRESGE
FREE

Contemporary Series

"BOCCACCIO '70"

Friday, December 6
6:30 & 9:00 P.M.
KRESGE 60c

Entertainment Series

"SHOWBOAT"

Saturday December 7
6:15, 7:30 & 9:45 P.M.
10-250 35c

Classic Series

"THE JOYLESS STREET"

Sunday, December 8
6:30 & 9:00 P.M. 10-250
Admission by Membership Ticket

A LECTURE**VANCE PACKARD, "THE BREED THAT SUCCEEDS"**

WEDNESDAY, DECEMBER 11, 8:00 P.M.

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Making the Scene

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8	9	10	11	12	13	14
15	16	17				

'The Messia' — BU music clubs, Sherman Union Ballroom, Dec. 11, 8:30.

Symphony concert — New England Conservatory, Jordan Hall, Dec. 12, 8:30; music of Janacek, Berg, Schubert; free.

Concert Band — Dec. 13, Kresge Audit, 8:30; London's 'Three Symphonies' for Band, Cialazza's 'Concerto for Clarinet and Concert Band,' Debussy's 'The Martyrdom of Saint Sebastian.'

Peter, Paul and Mary — Dec. 14, Donnelly Memorial, 8:30; \$5.00, \$4.00, \$3.00, \$2.00.

Gardner Museum — The Aeolian Consort, Dec. 15, 3:00; free.

Handel and Hayden Society — 'The Messiah,' Symphony Hall, Dec. 15, 7:00, Dec. 16, 8:15; \$4.00, \$3.00, \$2.50, \$2.00, \$1.50..

THEATRE

'Bartholomew Fair' — Dramashop, Dec. 11-14, Kresge Little Theatre, 8:30.

'Amahl and the Night Visitors' — New England Conservatory Opera Theatre, Dec. 16, Jordan Hall, 8:30; free.

LECTURES

Vance Packard — 'The Breed that Succeeds,' Dec. 11, Kresge Audit, 8:00; free.

Harvard Law School Forum — Allen W. Dulles, former Director of the CIA, 'The Role of Intelligence in Policy-Making.'

Next Week**MUSIC**

Concert of Music by Brahms — New England Conservatory, Dec. 11, 8:30, Jordan Hall; Quintet for Piano and Strings, Sonata in F minor, Zigeunerlieder.

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A Lecture
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Admission by Membership Ticket

A LECTURE**VANCE PACKARD, "THE BREED THAT SUCCEEDS"**

WEDNESDAY, DECEMBER 11, 8:00 P.M.

KRESGE FREE

4000 NSF fellowships available

The National Science Foundation has announced that it is now accepting applications for its graduate and post-doctoral fellowships for the 1964-1965 school year. The foundation plans to award 4000 fellowships for graduate study and an additional 185 postdoctoral grants.

The awards are available to United States citizens who "have demonstrated ability and special aptitude for advanced training in the sciences." The grants are made for study in the mathematical, physical, biological, and engineering sciences, and in anthropology, economics, geography, history and philosophy of science, sociology, and interdisciplinary work in these fields.

The NSF awards are available to graduate students in any of their years of graduate work, and to postdoctoral fellows for not more than 2 years in any five year period.

The annual stipends for graduate fellows are \$2400 for first year graduate students, \$2600 for second or third year graduate students, and \$2800 for graduate students in their final year. Postdoctoral stipends are in the amount of \$5500. Limited allowances are also provided to apply against tuition, laboratory fees and travel. Allowances of \$500 for each dependent are also made.

The fellows must be engaged in fulltime graduate or postdoctoral study, except for possible teaching positions which they may hold with the consent of the NSF. Teaching activities are

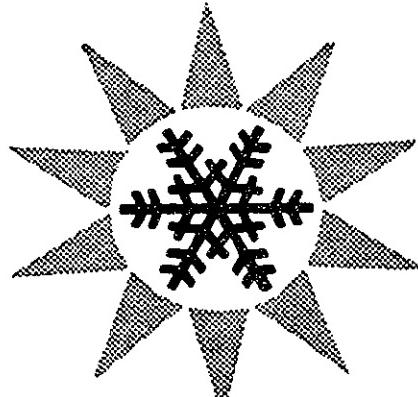
NASA lists awards: MIT in fifth place among U.S. colleges

MIT was listed fifth among the institutions receiving research grants from the National Aeronautics and Space Administration. Receiving 4.5 million dollars from NASA in the past four years, MIT trailed the Smithsonian Institute, 13.8 million dollars, the University of California, 8.8 million dollars, the University of Michigan, 7.7 million dollars, and the University of Chicago, 5.8 million dollars.

NASA announced that in its report that thirty percent of its 1000 research awards went to state-supported universities. Earliest grants date back to 1959 while the latest awards included in the report were effective as of July 1, 1963.

In many cases, original grants and contracts have been supplemented with additional funds.

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Applications are due for the graduate fellowships by January 3, and for postdoctoral fellowships by December 16. All applicants for the graduate awards are required to take the Graduate Record Examination, which will be administered by the Educational Testing Service on January 18, 1964.

Selection will be made by a panel of members of the National Research Council of the National Academy of Sciences, and the appointments will be announced on March 15, 1964.

Vance Packard, author of several critiques of life in modern America, will give a lecture, "The Breed that Succeeds," December 11 in Kresge Auditorium at 8:00.



Packard's first three books, 'The Status Seekers,' 'The Hidden Persuaders,' and 'The Waste Makers,' all reached number one on best-seller lists, making him the only author in recent years to

have three books in a row reach the top rung in the non-fiction field.

His latest book, 'The Pyramid Climbers,' concerns the drive of corporation executives to reach the top of the pyramids of business power.

The Status Seekers' shows a trend towards a rigid class system in supposedly classless America. 'The Hidden Persuaders' tells of the techniques employed for "Persuasion in depth" advertising, while 'The Waste Makers' described the planned obsolescence worked by business heads.

The breed that succeeds

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Orchestra to give Walton ballet, violin concerto

The Symphony Orchestra will give the first Boston performance of William Walton's Ballet Suite from 'The Quest' December 7 at 8:30 in Kresge Auditorium.

Based on Spenser's 'The Faerie Queene,' the Ballet Suite from 'The Quest' depicts the trials of St. George, the patron saint of England.

The program will also include 'Fireworks' by Stravinsky; Beethoven's Violin Concerto, with Janet Stober soloist; and Sibelius' 'Pohjola's Daughter'.

Tickets are free in the lobby of Building 10. Admission is \$1.00 for the general public at the Kresge Box Office.

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Allegro is one of a series of Ford-built dream cars which will be shown at the New York World's Fair to test consumer reaction to styling and mechanical innovations. This will help determine which of their forward-looking features are destined for the American Road—as further examples of Ford Motor Company's leadership in styling and engineering.



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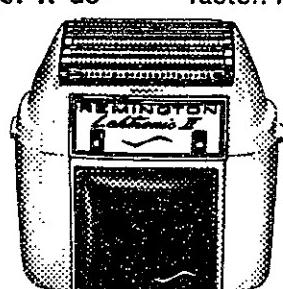
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Economic development

Millikan cites Indian foreign exchange shortage

By Ron Randall

Professor Max Millikan, Director of the MIT Center for International Studies, called the shortage of foreign exchange "one of the key bottlenecks to a

more rapid rate of growth in population increase. Only part of the blame lies in the Red Chinese aggression.

Agricultural output comprises over half of the gross national product of India, and lack of growth here has lowered the national figures.

Indian industries today are operating below capacity, even though capacity itself is far behind goals scheduled in the Five Year Plans. The cause lies in the unavailability of sufficient quantities of raw materials presently required from abroad.

It will take at least a decade of national investment said Millikan, before India can free herself from heavy dependence on imports.

The 5% rate of growth forecasted by the third Five Year Plan was justified at the Plan's inception, noted Millikan, although the current actual rate of 2% is barely keeping up with the

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Millikan rejected the "single factor explanation" of India's slow growth, however, saying that "the critical bottleneck shifts about from month to month." The choice of investment in agriculture or in heavy industry is a "false dilemma" since both must be developed simultaneously.

"The administrative controls of the Indian government have become increasingly burdensome" especially the rigid price controls, yet Millikan acknowledges the need for some controls and feels that India can't let market prices alone determine the development of the economy. He praised the recent recognition of government overcontrol, and feels that it will shortly be corrected.

As for India's future, Millikan is optimistic, since her excellent steel deposits will ultimately enable her to become a leading supplier of manufactured goods.



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THE TECH COOP

Bunting emphasizes planning for change

By Anthony Pappas

The problems of educated women in our society have been widely debated for the past few years. When a woman gets married after leaving college, how can she put her knowledge to use during her life? On November 18 at a meeting of the Technology Dames, Dr. Mary Bunting, President of Radcliffe College spoke of the need of planning for change as part of an intelligent woman's preparation for life.

Dr. Bunting stressed that every individual should find a thing to which he can give himself, to which he can fasten an intense interest. In this way, she believes, modern women can maximize their "positive" experiences. In our industrial society it is easy to minimize the "negative" experiences — preparing meals, ironing, washing clothes. The importance of finding a goal to contribute to your individual satisfaction cannot be overemphasized. Dr. Bunting believes it is part of a human being's constitution and nature.

Sputnik Launching Poses Problem

The problem of women and higher education first came to her attention in the fall of 1957 at the time of the Sputnik launching. In the national search for talent in the ensuing months a study was made of the nation's high school graduates. What surprised her most was that many talented girls were not going to college. Of the top 10 per cent in ability of the nation's high school graduates who did not go to college, approximately 99 per cent of this group was girls. Dr. Bunting blamed this, in part, on our cultural values, which did not regard the pursuit of learning as too important for women.

Once girls reached college they were told to acquire broad interests. Consequently, when they graduated, they did not have a strong commitment to any field on which to build in the future. Lacking this firm foundation, in later life, they tended to feel as if their college education were useless.

This raised the topic of how early an individual makes a commitment to a specific field. Dr. Bunting pointed out those people with a sharp focus on one subject, also were broad-minded in the general sense.

Institute for Independent Study at Radcliffe

With the above points in mind, Radcliffe has established an Institute for Independent Study which offers assistance to women in the Boston area to do creative and productive work.

When the Institute was established, Mrs. Bunting noted that the outside response was over-

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whelming and a great step was made in dealing with the problems in this area.

In the future Dr. Bunting thinks we may see a rise in the number of people with a combination of several talents, the nuclear physicist who speaks Chinese came to mind.

Also, she hopes that a family will be regarded more as a "corporation" with the interests of each of its members taken into account. For example, when a manager is transferred from one city to another, one should consider whether the change is appropriate for his wife and children.

By hastening a change in our

values and a more understanding outlook, Dr. Bunting believes society can go a long way toward resolving the role of educated women in our modern world.

By recognizing their intellectual interests, we will give their later years deeper meaning.



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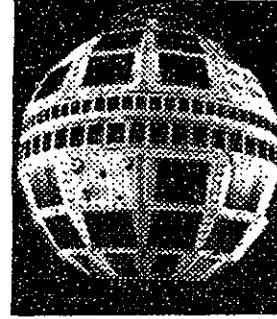
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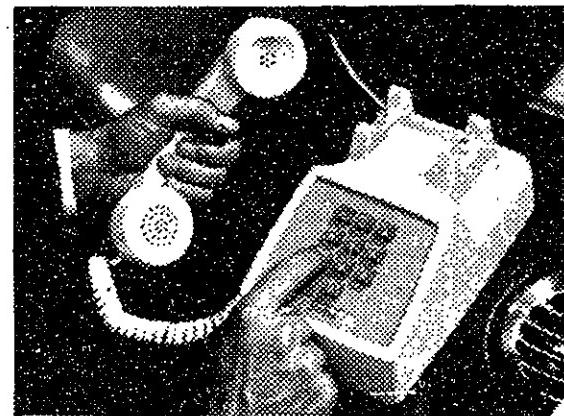
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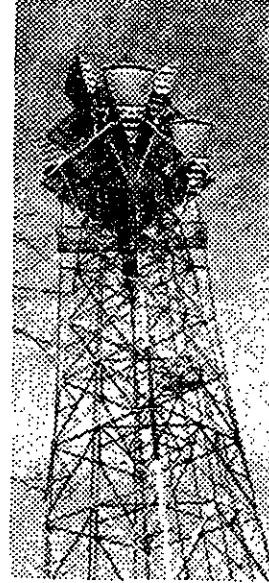
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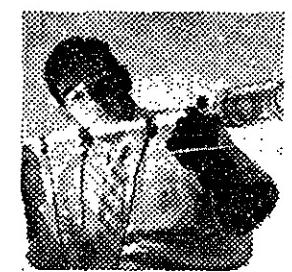
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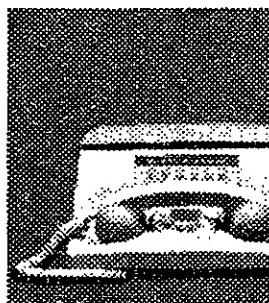
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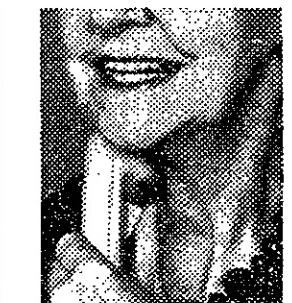
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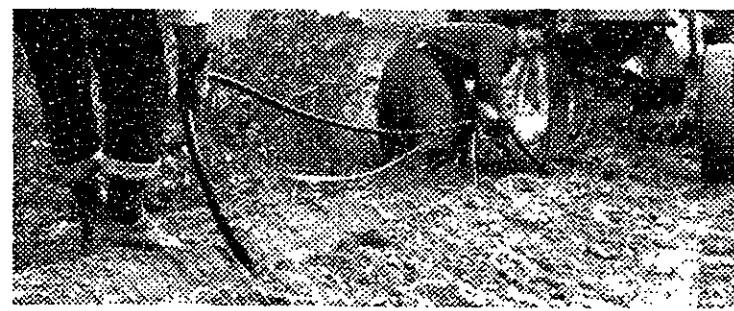
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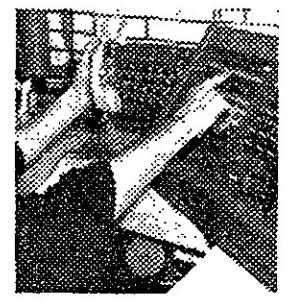
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Holiday Open Wrestling Tourney slated for January 4 on duPont mats

Start against Adelphi

By Ted Trueblood

The MIT Athletic Department announced November 26 its decision to host a Holiday Open Wrestling Tournament at MIT. Scheduled for January 4 of the coming year, the tourney is aimed at giving an incentive to New England wrestlers to stay in shape over the Christmas holidays.

Single Elimination format

The wrestling tournament, first ever to be hosted by MIT, will be a single elimination affair with the usual ten weight classes competing. The individual matches are to be six minutes long, consisting of three two-minute rounds, and will be held at duPont on three simultaneously operating mats.

Open to all amateurs

The holiday tournament is open to all amateur wrestlers who have registered and paid the \$2 entry fee.

Interested wrestlers should contact: Mr. Robert Klein, Tournament Manager, duPont Athletic Center, MIT, Cambridge 27, Mass. before the January 2 closing date.

Boit Prize essay to be published

An essay by Cynthia Lee Kolb topics approved by the Humanities '63, now Mrs. Daniel Whitney, ties Department. on "The War in Anthony and Professor Holland said, "Even Cleopatra," which won a Boit prize last June is to be published under the same title in "Literature and Psychology."

Mrs. Whitney, who is now a graduate student in physics, wrote the essay for a course in Shakespeare taught by Humanities Professor Norman Holland.

The Boit prizes are annual awards given to the authors of outstanding essays written on

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A unique three-match schedule against top competition marks the opening of Tech's varsity squash season next weekend. The Engineers play Ade'phi at 4:00 and Navy at 8:30 next Friday. Saturday afternoon, following a Navy-Dartmouth match on the Dupont courts, they take on Dartmouth.

This weekend is typical of the difficult competition the Techmen face all season. The squash team has what is perhaps the most difficult schedule of any MIT sport, playing the entire Ivy League, the little Ivy League, Amherst, Williams, Trinity, and Wesleyan, and top independent teams such as Army and Navy.

The racquetmen are optimistic about improving upon last year's record. Captain Ted Cruise '64 occupies the job of number one man. Cruise has improved considerably under the guidance of Coach Ed Crocker and should fill the position well. Tomas Guillermo '65 takes over position number two. The team lacked the services of Guillermo in the 1962-63 season and his return is looked upon as a great help.

Positions three, four, and five will be filled by returning lettermen Ken Comey '65, Don Ward '65, and Jon Gruber '64. The number six slot will be handled by tennis player Bent Aasnaes '64, who is a new comer to the squad and whose abilities are expected to be a welcome addition. The seventh position falls to Wayne Wilner '65, much improved over last year.

By D. G. Brown

The Engineers play Ade'phi at 4:00 and Navy at 8:30 next Friday. Saturday afternoon, following a Navy-Dartmouth match on the Dupont courts, they take on Dartmouth.

This weekend is typical of the difficult competition the Techmen face all season. The squash

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Burtonites edge Delt

By John Reintjes

Five teams saw action last week in an abbreviated intramural basketball schedule. Burton A topped Delta Tau Delta to remain the only undefeated team in the American League.

Lambda Chi Alpha A, Burton-Conner 2nd, Zeta Beta Tau and Delta Upsilon also scored victories in their contests.

Sullivan leads Burton

Burton A tightened their A league lead by edging Delta Tau Delta 54-50. Mike Sullivan '64 led the Burtonites with 20 points while Mike Simpson netted 30 and Bill Dreiss '64 tallied 18 for the losers. Lambda Chi Alpha downed Phi Gamma Delta 54-44 to move into sole possession of third place. Ken Follansbee '67 was high man for LXA with 19 points. Roy Wyttensbach '63 paced the Fijis with 13 points while Joe Blew '64 and Clyde Wooten '64 each contributed 12 points. The two teams had been tied with Grad Management Society A and Political Science with 2-2 records, and the loss dropped the Fijis into sixth place.

Conner undefeated

Burton-Conner 2nd remained undefeated atop the Pacific Coast League by stopping Phi Delta Theta 51-32. Bill Bohlke '65 netted 18 and John Dingler tallied 12 for Conner while Juri Kolts '64 had 12 for the Phi Deltas.

The Phi Deltas slipped back into a tie for last place with East Campus 414, both with 0-3 records.

Townsend nets 26

Theta Delta Chi A defeated Zeta Beta Tau 52-49 in the American Association.



It appears here as if Lambda Chi senior Mike Parker is balancing the ball on his head to keep it away from Phi Gamma Delta defenders Clyde Wooten (center) and Roy Wyttensbach '64. LXA beat the Fijis 54-44 in intramural basketball last Tuesday.

Photo by Stephen Teicher

Expect finest year

Cindermen to open season

Tech's track and field squad opens what could be its finest indoor season in a long time at Northeastern next Saturday. There are several reasons why this squad, co-captained by Jim Flink '64 and Gary Lukis '64, is sure to improve upon its 1962-63 record of four victories and four defeats.

Coaches Art Farnham and Gordon Kelly feel the main reason for this optimism lies in the fact that the team "is one of the best balanced MIT has yet assembled" and "has plenty of depth in every event."

Only three members of last year's indoor squad were lost to graduation, leaving a good solid nucleus upon which to build. This nucleus has been strengthened by the addition of several of last year's outstanding freshmen.

In track events, the Engineers should be almost unbeatable. Al-

Tervalon '65, Terry Dorschner '65, Flink should sweep the hurdles as they did last year. Flink will get added help in the 50 yard dash from Dennis Sivers '66 and Rex Ross '66.

Tech's one weakness in track, the 600 yard run, vanished when Rusty Epps '66 and Larry Schwoeri '66 moved up from the freshman ranks. In the distance events, Sumner Brown '66 is a sure point getter.

The field team also glows with strength. The pole vault, with Lukis, Ken Morash '65, and Mike Keehner '65 should go to Tech in every meet.

Jerry Dassel '64 and Jim Kotschik '64 in the weight throw, and Bill Remsen '64 in the shot put give MIT plenty of muscle in these events.

Frosh sports

Wrestlers, cagers, mermen kick off seasons

By Charlie Willman

The time of the year has arrived when the sports scene shifts from fall sports to winter sports. Within a week, practically all the freshman teams will have begun their winter seasons in sports such as skiing, indoor track, and basketball, wrestling, swimming, and hockey teams.

Wrestling

The wrestling team started right off with a match against Harvard last night, and will go on to oppose teams such as the University of Connecticut, Brown, Springfield, Dartmouth, and Tufts. The season ends with the New Englands at UCorn. in March. Last year's team compiled a respectable 4-5 record against tough competition, and this year's squad looks like it can do even better.

Swimming

Saturday's cancellation of the "All Tech Swim" eliminated the team's chance to try out its men under competitive pressure, but frosh mermen have looked good in practice and might very well improve upon last year's record of 4-6. The season begins today, December 4th in

Opener last night

Varsity hoopsters beat frosh, lose to Terriers in scrimmage

Somewhat disappointing showings in their last two scrimmages preceded the varsity hoopsters' season debut again Boston State College last night.

The varsity cagers defeated the MIT freshman squad, 73-48, Friday night, November 29, in the cage. Senior Jack Moter led the varsity with 19 points, Bob Grady '65 netted 18, and Frank Yin '65 and Bill Eagleson '64 scored 14 apiece. But freshman Danilo Santini led all scorers with 21 points, and Alex Wilson added 9 more for the first-year men. The freshman five looked promising, lacking only poise and experience, while the varsity game was a bit off.

In a scrimmage Gym, Boston University, Saturday afternoon, the Terriers handed the Beavers an 82-66 defeat. The halftime tally was 51-32 BU, but Tech coach Jack Barry switched the Tech defense from a 1-2-2 zone to a man-to-man, and MIT closed the gap slightly after the intermission.

Moter again led the Beavers with 22 points, with Grady tallying 18 and Yin 11. Six-foot-nine Moreshead of BU scored 21.

The Techmen are slated to meet Trinity at home tomorrow night and Wesleyan at home next Saturday.



Varsity co-captain Bill Eagleson goes up for a tip in scrimmage against freshmen Friday night in the cage. Varsity won, 73-48.

Photo by Stephen Teicher

Williams captains team

Grapplers must replace four top men

By Dave Kress

With the wrestling season coming up soon, MIT's grapplers, minus four graduated stars, are toning up to try to match last year's 10-3-1 season and second in the New England Inter Collegiate Tournament. The opening date last night at Harvard promised to be one of the rougher assignments of the season, calling for top condition the first day of the season.

Graduation losses

This year's team, coached by Will Chassey, faces much rebuilding due to terrific graduation losses. Four outstanding wrestlers, representing half of the weight classes, were lost. Among the losses were co-captains Tom Gerrity at 157 pounds and Jim Evans at 147 pounds, who were third and second respectively in the New Englands last winter. Also lost were 137-pound New England champion Terry Chatwin and Armen Gabrielian, injured in the New Englands but amassing a 12-3 record.

5 returning lettermen

Captain Mike Williams '64 at 167 pounds leads this year's squad, which boasts of five returning lettermen and three high finishers in last year's New Eng-

lands. These include Williams, heavyweight Kim Sloat '64, and 177-pounder Bob Wells '65, who all took 3rd places in the New Englands. Other returning lettermen are Tom McAuley '65 at 123 pounds and Don Fredrickson '65 at 147 pounds. Some of last year's outstanding freshmen, who could be moving into varsity positions this year include Tom Connolly, 123 pounds, Hal Hultgren, 130 pounds, Marilyn Whiteman, 137 pounds, and Dick Nygren, 177 pounds.

Tough competition

The squad, which has been working out since October 1, will meet some very tough competition this year, especially New England champion Springfield, Dartmouth, and Harvard, while hoping to make Coach Chassey's second season as coach as successful as the first.

The season opens at Harvard December 3, with two more away meets following.

Fencers seek New England championship again despite graduation of seven of nine starters

By Herb Trachtenberg

The varsity fencers clash swords with Brandeis in their season opener December 7.

Having lost seven of last year's nine starters, the team must rely on its depth and the outstanding teaching ability of its coach, Silvio Vitale, to produce a season comparable to last year's New England championship. The team will be led by captain Art Best '64 who last year had the team's top win-loss record at 24-11.

The team will meet Bradford

Durfee, Army and CCNY at home and will travel to Trinity, Fordham, St. John's, Brooklyn Poly, Seton Hall, Newark and Stevens. In addition to these matches, a pair of home-and-home series are scheduled, one with Harvard and one with Brandeis.

The toughest competition to be found in this year's schedule is expected from Harvard, who last year took two close meets from Tech, and from CCNY, whom the team has not met for several years.

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On Deck

Today, December 4

Basketball (F)—Huntington School, Home, 7:00 pm

Swimming (V)—Massachusetts, Home, 8:30 pm

Swimming (F)—Massachusetts, Home, 7:00 pm

Thursday, December 5

Basketball (V)—Trinity, Home, 8:15 pm

Basketball (F)—Trinity, Home, 6:30 pm

Hockey (V)—Massachusetts, Home, 7:00 pm

Friday, December 6

Rifle—Wentworth, Home

Squash (V)—Adelphi, Home, 4:00 pm

Navy, Home, 8:30 pm

Wrestling (V)—Connecticut, Away, 4:30 pm

Wrestling (F)—Connecticut, Away, 3:00 pm

Saturday, December 7

Basketball (V)—Wesleyan, Home, 8:15 pm

Basketball (F)—Wesleyan, Home, 6:00 pm

By Charlie Willman

The time of the year has arrived when the sports scene shifts from fall sports to winter sports. Within a week, practically all the freshman teams will have begun their winter seasons in sports such as skiing, indoor track, and basketball, wrestling, swimming, and hockey teams.

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Swimming

Saturday's cancellation of the "All Tech Swim" eliminated the team's chance to try out its men under competitive pressure, but frosh mermen have looked good in practice and might very well improve upon last year's record of 4-6. The season begins today, December 4th in

a meet against the University of Massachusetts, and the swimmers then go on to meet Tufts, RPI, Brown, and Springfield, to name a few. The season will end with the New Englands in March.

Hockey

The hockey team's season begins with a game against the Rivers Country Day School December 10th. Practice was hindered this year at our own MIT rink because the ice was formed too late, but the squad got a head start by practicing at Harvard during the early part of November. The icemen aim to improve upon last year's 0-9 record, with a schedule that includes games against Lawrence Academy and Middlesex School.

Basketball

One of the brightest of the winter's prospects seems to be the frosh hoopmen, who play 15 games this year against such teams as Harvard, Northeastern, WPI, UNH, and Tufts. The squad begins its season tonight against Huntington, and has a good chance to better last year's 4-10 record.

A turnout of over 40 candidates, the largest ever, should give the freshmen their best hoop team in years.